

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.**

Application Serial Number: 10/563,832  
Source: I/KWP  
Date Processed by STIC: 1-18-06

# ***ENTERED***



IFWP

## RAW SEQUENCE LISTING

DATE: 01/18/2006

PATENT APPLICATION: US/10/563,832

TIME: 15:23:58

Input Set : A:\sequence listing.txt

Output Set: N:\CRF4\01182006\J563832.raw

```

3 <110> APPLICANT: OHIO UNIVERSITY
4     KOPCHICK, John J.
5     RIDERS, Markus
6     COSCHIGANO, Karen T.
7     GOSNEY, Elahu S.
9 <120> TITLE OF INVENTION: DIAGNOSIS AND TREATMENT METHODS RELATED TO AGING (AG)
11 <130> FILE REFERENCE: KOPCHICK8APCT
C--> 13 <140> CURRENT APPLICATION NUMBER: US/10/563,832
C--> 14 <141> CURRENT FILING DATE: 2006-01-09
16 <150> PRIOR APPLICATION NUMBER: 60/485,422
17 <151> PRIOR FILING DATE: 2003-07-08
19 <160> NUMBER OF SEQ ID NOS: 27
21 <170> SOFTWARE: PatentIn version 3.3
23 <210> SEQ ID NO: 1
24 <211> LENGTH: 263
25 <212> TYPE: DNA
26 <213> ORGANISM: Mus sp.
28 <400> SEQUENCE: 1
29 tatggcaaag atttggtgga gaaggccaag acctcagaga ttcagagcca ggtcaaggca      60
31 cactttgaga agacacacga gcagctgaca ccccttggtca ggtcagcagg aactagtcctg    120
33 gtgaacttct tcagcagttt aatgaacctc gaggagaaac cggctcctgc ggctaagtga      180
35 gatgtgccag gccagctctt cccacccag ctgctccact ggccaccgct agagcccctc      240
37 tccctacctt ctgcctgttt tct                                           263
40 <210> SEQ ID NO: 2
41 <211> LENGTH: 865
42 <212> TYPE: DNA
43 <213> ORGANISM: Mus sp.
46 <220> FEATURE:
47 <221> NAME/KEY: misc_feature
48 <222> LOCATION: (172)..(173)
49 <223> OTHER INFORMATION: n is unknown.
51 <220> FEATURE:
52 <221> NAME/KEY: misc_feature
53 <222> LOCATION: (320)..(320)
54 <223> OTHER INFORMATION: n is unknown.
56 <400> SEQUENCE: 2
57 acgcggggaa ttccaattct ccaggcatac gcgtataaca actcggataa ccattgttag      60
59 ttaatcagac tataggcaat aatcacacta taaataatcc acctataact tctctgttaa    120
W--> 61 cccaacaccg gaatgcctaa aggaaagatc caaaaagata aaagggaactc gnnaaacaag    180
63 aaccccgctt gtttacaaa aacatcacct ctagcattac aagtattaga ggcaactgcct    240
65 gcccagtgac taaagtttaa cggccgcggt atcctgaccg tgcaaaggta gcataatcac    300
67 ttgttcctta attagggacn agcagaacgg ctaaaccagg gtccaactgt ctctttatct    360
69 ttaatcagtg aaattgacct ttcagtgaag aggctgaaat ataataataa gacgagaaga    420

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71 ccctatggag cttaaattat ataacttatt tatttaattt attaaaccta atggcccaaa      480
73 aactatagta taagtttgaa atttcggttg gggtgacctc ggagaataaa aaatcctccg      540
75 aatgattata acctagactt acaagtcaaa gtaaaatcaa catatcttat tgacccagat      600
77 atattttgat caacggacca agttacccta gggataacag cgcaatccta tttaagagtt      660
79 catatcgaca attagggttt acgacctcga tgttgatca ggacatccca atggtgtaga      720
81 agctattaat ggttcgtttg ttcaacgatt aaagtcctac gtgatctgag ttcagaccgg      780
83 agcaatccag gtcggtttct atctatttac gatttctccc agtacctcgg ccgcgaccac      840
85 gctaagggcg aattccagca cactg                                           865
88 <210> SEQ ID NO: 3
89 <211> LENGTH: 387
90 <212> TYPE: DNA
91 <213> ORGANISM: Mus sp.
93 <400> SEQUENCE: 3
94 acgcgggggt ggaaaggcga ccatgcttct ctgctctgac agttgatgaa acatatgtcc      60
96 ccaaagagtt taaagctgag accttcacct tccactctga tatctgcaca cttccagaga      120
98 aggagaaaca gattaagaaa caaacggctc ttgctgagct ggtgaagcac aagcccaagg      180
100 ctacagcgga gcaactgaag actgtcatgg atgactttgc acagttcctg gatacatggt      240
102 gcaaggctgc tgacaaggac acctgcttct cgactgaggg tccaaacctt gtcactagat      300
104 gcaaagacgc cttagcctaa acacatcaca accacaacct tctcaggcta ccctgagaaa      360
106 aaaagacatg aagactcagg actcatc                                           387
109 <210> SEQ ID NO: 4
110 <211> LENGTH: 711
111 <212> TYPE: DNA
112 <213> ORGANISM: Mus sp.
115 <220> FEATURE:
116 <221> NAME/KEY: misc_feature
117 <222> LOCATION: (523)..(523)
118 <223> OTHER INFORMATION: n is unknown.
120 <220> FEATURE:
121 <221> NAME/KEY: misc_feature
122 <222> LOCATION: (543)..(543)
123 <223> OTHER INFORMATION: n is unknown.
125 <220> FEATURE:
126 <221> NAME/KEY: misc_feature
127 <222> LOCATION: (579)..(579)
128 <223> OTHER INFORMATION: n is unknown.
130 <220> FEATURE:
131 <221> NAME/KEY: misc_feature
132 <222> LOCATION: (587)..(587)
133 <223> OTHER INFORMATION: n is unknown.
135 <220> FEATURE:
136 <221> NAME/KEY: misc_feature
137 <222> LOCATION: (612)..(612)
138 <223> OTHER INFORMATION: n is unknown.
140 <220> FEATURE:
141 <221> NAME/KEY: misc_feature
142 <222> LOCATION: (615)..(615)
143 <223> OTHER INFORMATION: n is unknown.
145 <220> FEATURE:

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Input Set : A:\sequence listing.txt

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146 <221> NAME/KEY: misc_feature
147 <222> LOCATION: (625)..(625)
148 <223> OTHER INFORMATION: n is unknown.
150 <220> FEATURE:
151 <221> NAME/KEY: misc_feature
152 <222> LOCATION: (639)..(639)
153 <223> OTHER INFORMATION: n is unknown.
155 <220> FEATURE:
156 <221> NAME/KEY: misc_feature
157 <222> LOCATION: (647)..(647)
158 <223> OTHER INFORMATION: n is unknown.
160 <220> FEATURE:
161 <221> NAME/KEY: misc_feature
162 <222> LOCATION: (657)..(658)
163 <223> OTHER INFORMATION: n is unknown.
165 <220> FEATURE:
166 <221> NAME/KEY: misc_feature
167 <222> LOCATION: (663)..(663)
168 <223> OTHER INFORMATION: n is unknown.
170 <220> FEATURE:
171 <221> NAME/KEY: misc_feature
172 <222> LOCATION: (675)..(675)
173 <223> OTHER INFORMATION: n is unknown.
175 <220> FEATURE:
176 <221> NAME/KEY: misc_feature
177 <222> LOCATION: (677)..(677)
178 <223> OTHER INFORMATION: n is unknown.
180 <220> FEATURE:
181 <221> NAME/KEY: misc_feature
182 <222> LOCATION: (682)..(682)
183 <223> OTHER INFORMATION: n is unknown.
185 <220> FEATURE:
186 <221> NAME/KEY: misc_feature
187 <222> LOCATION: (684)..(684)
188 <223> OTHER INFORMATION: n is unknown.
190 <220> FEATURE:
191 <221> NAME/KEY: misc_feature
192 <222> LOCATION: (692)..(692)
193 <223> OTHER INFORMATION: n is unknown.
195 <220> FEATURE:
196 <221> NAME/KEY: misc_feature
197 <222> LOCATION: (697)..(697)
198 <223> OTHER INFORMATION: n is unknown.
200 <400> SEQUENCE: 4
201 acgcgggggca atcggtcacc tcctcttcct ccacgaaaca ggatcaaaca acccaacagg      60
203 attaaactca gatgcagata aaattccatt tcacccccac tatacaatca aagatatcct      120
205 aggtatccta atcatattct taattctcat aaccctagta ttatttttcc cagacatact      180
207 aggagacca gacaactaca taccagctaa tccactaaac accccacccc atattaaacc      240
209 cgaatgatat ttcctatttg catacgccat tctacgctca atccccaata aactaggagg      300

```

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```

211 tgtcctagcc ttaatcttat ctatcctaatt tttagcccta atacctttcc ttcataacctc 360
213 aaagcaacga agcctaatat tccgcccaat cacacaaatt ttgtacctcg gccgcgacca 420
215 cgctaagggc gaattctgca gatatccatc acactggcgg ccgctcgagc atgcatctag 480
W--> 217 agggcccaat tcgccctata gtgagtcgta ttacaattca ctnggccgtc gtttacaacg 540
219 tcntgactgg gaaaaccctt ggcgttacca aattaatcng cctttgnaaa catccccctt 600
221 tcgccagctg gncgnaatag cgaanaaggc cccaccenna cgccctncca acagttmncc 660
223 canctatacc gtacngnatt tnanggttta cncctanaaa aaaaagagcc g 711
226 <210> SEQ ID NO: 5
227 <211> LENGTH: 850
228 <212> TYPE: DNA
229 <213> ORGANISM: Mus sp.
232 <220> FEATURE:
233 <221> NAME/KEY: misc_feature
234 <222> LOCATION: (39)..(39)
235 <223> OTHER INFORMATION: n is unknown.
237 <220> FEATURE:
238 <221> NAME/KEY: misc_feature
239 <222> LOCATION: (216)..(216)
240 <223> OTHER INFORMATION: n is unknown.
242 <220> FEATURE:
243 <221> NAME/KEY: misc_feature
244 <222> LOCATION: (218)..(218)
245 <223> OTHER INFORMATION: n is unknown.
247 <220> FEATURE:
248 <221> NAME/KEY: misc_feature
249 <222> LOCATION: (572)..(572)
250 <223> OTHER INFORMATION: n is unknown.
252 <220> FEATURE:
253 <221> NAME/KEY: misc_feature
254 <222> LOCATION: (590)..(590)
255 <223> OTHER INFORMATION: n is unknown.
257 <220> FEATURE:
258 <221> NAME/KEY: misc_feature
259 <222> LOCATION: (594)..(594)
260 <223> OTHER INFORMATION: n is unknown.
262 <220> FEATURE:
263 <221> NAME/KEY: misc_feature
264 <222> LOCATION: (600)..(600)
265 <223> OTHER INFORMATION: n is unknown.
267 <220> FEATURE:
268 <221> NAME/KEY: misc_feature
269 <222> LOCATION: (605)..(605)
270 <223> OTHER INFORMATION: n is unknown.
272 <220> FEATURE:
273 <221> NAME/KEY: misc_feature
274 <222> LOCATION: (681)..(681)
275 <223> OTHER INFORMATION: n is unknown.
277 <220> FEATURE:
278 <221> NAME/KEY: misc_feature

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PATENT APPLICATION: US/10/563,832

TIME: 15:23:58

Input Set : A:\sequence listing.txt

Output Set: N:\CRF4\01182006\J563832.raw

279 <222> LOCATION: (693)..(693)  
280 <223> OTHER INFORMATION: n is unknown.  
282 <220> FEATURE:  
283 <221> NAME/KEY: misc\_feature  
284 <222> LOCATION: (711)..(711)  
285 <223> OTHER INFORMATION: n is unknown.  
287 <220> FEATURE:  
288 <221> NAME/KEY: misc\_feature  
289 <222> LOCATION: (727)..(727)  
290 <223> OTHER INFORMATION: n is unknown.  
292 <220> FEATURE:  
293 <221> NAME/KEY: misc\_feature  
294 <222> LOCATION: (730)..(730)  
295 <223> OTHER INFORMATION: n is unknown.  
297 <220> FEATURE:  
298 <221> NAME/KEY: misc\_feature  
299 <222> LOCATION: (741)..(741)  
300 <223> OTHER INFORMATION: n is unknown.  
302 <220> FEATURE:  
303 <221> NAME/KEY: misc\_feature  
304 <222> LOCATION: (748)..(748)  
305 <223> OTHER INFORMATION: n is unknown.  
307 <220> FEATURE:  
308 <221> NAME/KEY: misc\_feature  
309 <222> LOCATION: (764)..(764)  
310 <223> OTHER INFORMATION: n is unknown.  
312 <220> FEATURE:  
313 <221> NAME/KEY: misc\_feature  
314 <222> LOCATION: (768)..(768)  
315 <223> OTHER INFORMATION: n is unknown.  
317 <220> FEATURE:  
318 <221> NAME/KEY: misc\_feature  
319 <222> LOCATION: (772)..(772)  
320 <223> OTHER INFORMATION: n is unknown.  
322 <220> FEATURE:  
323 <221> NAME/KEY: misc\_feature  
324 <222> LOCATION: (774)..(774)  
325 <223> OTHER INFORMATION: n is unknown.  
327 <220> FEATURE:  
328 <221> NAME/KEY: misc\_feature  
329 <222> LOCATION: (780)..(780)  
330 <223> OTHER INFORMATION: n is unknown.  
332 <220> FEATURE:  
333 <221> NAME/KEY: misc\_feature  
334 <222> LOCATION: (784)..(784)  
335 <223> OTHER INFORMATION: n is unknown.  
337 <220> FEATURE:  
338 <221> NAME/KEY: misc\_feature  
339 <222> LOCATION: (786)..(786)

## RAW SEQUENCE LISTING ERROR SUMMARY

DATE: 01/18/2006

PATENT APPLICATION: US/10/563,832

TIME: 15:23:59

Input Set : A:\sequence listing.txt

Output Set: N:\CRF4\01182006\J563832.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:2; N Pos. 172, 173, 220

Seq#:4; N Pos. 523, 543, 579, 587, 612, 615, 625, 639, 647, 657, 658, 663, 675, 677, 682

Seq#:4; N Pos. 684, 692, 697

Seq#:5; N Pos. 39, 216, 218, 572, 590, 594, 600, 605, 681, 693, 711, 727, 730, 741, 748

Seq#:5; N Pos. 764, 768, 772, 774, 780, 784, 786, 788, 793, 798, 799, 812, 829, 833, 841

Seq#:5; N Pos. 844, 845

Seq#:6; N Pos. 839

Seq#:11; N Pos. 13, 14, 15, 24, 33, 52, 87, 89, 104, 112, 114, 138, 144, 154, 169, 196, 198

Seq#:11; N Pos. 201, 204, 273, 289, 296, 298, 300

**VERIFICATION SUMMARY**

DATE: 01/18/2006

PATENT APPLICATION: US/10/563,832

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Input Set : A:\sequence listing.txt

Output Set: N:\CRF4\01182006\J563832.raw

L:13 M:270 C: Current Application Number differs, Replaced Current Application Number  
L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:61 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:120  
M:341 Repeated in SeqNo=2  
L:217 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:480  
M:341 Repeated in SeqNo=4  
L:383 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0  
M:341 Repeated in SeqNo=5  
L:452 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:780  
L:826 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0  
M:341 Repeated in SeqNo=11